

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference EMBR-028	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/BR2005/000048	International filing date (day/month/year) 11/04/2005	(Earliest) Priority Date (day/month/year) 12/04/2004
Applicant EMPRESA BRASILEIRA DE COMPRESSORES S.A. - EMBRACO		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the International search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.



The International search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the International application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).3. ☐ Unity of invention is lacking (see Box III).

## 4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

## 5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 5



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F04B39/02 F16C39/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/010438 A1 (BOUILLE ANDRE ET AL) 2 August 2001 (2001-08-02) abstract; figure 1 paragraphs '0035! - '0038! -----	1
Y	US 6 464 472 B1 (SEKIGUCHI SHINICHI ET AL) 15 October 2002 (2002-10-15) column 5, line 39 - column 6, line 67; figures 4,5,7 -----	1
Y	US 2002/050424 A1 (IVERSEN FRANK HOLM ET AL) 2 May 2002 (2002-05-02) abstract; figures 1,4 paragraphs '0025! - '0030! ----- -/-	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*I\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*S\* document member of the same patent family

Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

14/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5616 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Pinna, S

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 924 847 A (SCARINGE ET AL) 20 July 1999 (1999-07-20) abstract; figures 3,4 column 14, line 1 - column 14, line 12 column 13, line 6 - column 13, line 22	1

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2001010438	A1	02-08-2001	FR	2804476 A1	03-08-2001
			EP	1122442 A1	08-08-2001
			JP	2001263292 A	26-09-2001
US 6464472	B1	15-10-2002	JP	11303793 A	02-11-1999
			DE	69907639 D1	12-06-2003
			DE	69907639 T2	11-03-2004
			EP	1056950 A1	06-12-2000
			WO	9942731 A1	26-08-1999
			TW	426789 B	21-03-2001
US 2002050424	A1	02-05-2002	DE	10053574 A1	16-05-2002
			IT	T020011013 A1	24-04-2003
US 5924847	A	20-07-1999	NONE		